CLAIMS

1. A method whereby an Internet Time Multiplexed Circuit Connection is established enabling data communications at both ends, all nodes between source & destination at predetermined periods (the single individual periods of which may be of different time durations at each nodes, due to the different transmission link bandwidths of each nodes) are pre-arranged to automatically switch incoming signals to next node without buffering delay/route computation delay, thus establishes a Time Multiplexed Circuit Connection for the whole duration of all the predetermined periods, as in the case where a simplex PSTN dedicated circuit connection has been established.

2. A method as in method 1, where the caller & receiving side nodes/ITSP access the Worldwide Connections Manager for the Time Multiplexed Circuit Connections initialisations, monitoring & releases.